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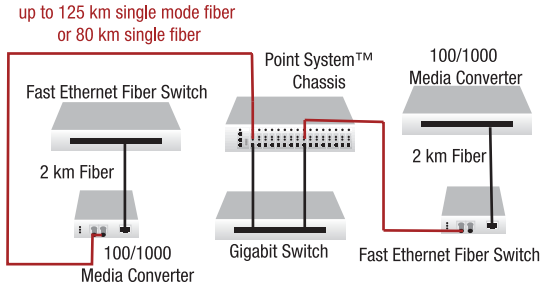
# CGFEB1xxx-15x, CGFEB1x40-170

## 100/1000 Bridging Media Converter




## Features

- Auto-Negotiation (1000Base-X ports)
- Link Pass Through
- Far-End-Fault (100Base-FX ports)
- Pause
- Automatic Link Restoration
- IEEE 802.1P QoS, IPv4 Tos/Diffserv, IPv6 traffic class
- IEEE 802.1q VLAN tagging and double tagging (Q in Q)
- Remote Firmware Upgrade
- Unidirectional data transmission allows secure traffic forwarding in only one direction
- Bandwidth Allocation
- DMI, Digital diagnostics per SFF-8472 (-170 models)
- RMON Counters for each port

## Specifications

| | |
|---|---|
| Standards | IEEE Std. 802.3™, IEEE 802.3ab, IEEE 802.3u, IEEE 802.3z, IEEE 802.1P, IEEE 802.1q |
| Data Rate | **Fiber (fixed):** 100 Mbps<br>**Fiber (SFP):** 1000 Mbps |
| Filtering Addresses | 8K MAC Addresses |
| Max Frame Size | **802.3ac tagged:** 1628 bytes<br>**untagged:** 1632 bytes |
| Status LEDs | **PWR:** ON green = Power applied to card<br>**FD (Duplex):** 100Base-FX port only<br>Green: ON = Full-duplex Link; OFF =Half-duplex<br>**LK1 (Fiber Link/Activity):** Port 1 Green: ON = Link; BLINK = Activity<br>**LK2 (Fiber Link/Activity):** Port 2Green: ON = Link; BLINK = Activity |
| Dip Switches | **Switch 1:** Port 1 - half/full duplex<br>**Switch 2:** Enable/Disable LPT<br>**Switch 3:** not used<br>**Switch 4:** not used<br>**Switch 5:** not used<br>**Switch 6:** not used |
| Dimensions | **Width:** 0.86" [22 mm]<br>**Depth:** 5.0" [127 mm]<br>**Height:** 3.4" [86 mm] |
| Power Consumption | 4.0 watts |
| Environment | See chassis specifications |
| Shipping Weight | 1 lb. [0.45 kg] |
| Regulatory Compliance | CISPR/EN55022 Class A, EN55024, EN61000, FCC Class A, CE Mark |
| Warranty | Lifetime |

## Ordering Info

**CGFEB1313-150**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-SX 850nm MM (SC)
**[62.5/125µm: 220 m/722 ft.]**
**[50/125µm: 550 m/1804 ft.]**
**Link Budget: 7.0 dB**

**CGFEB1324-150**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-SX 1300nm Extended MM (62.5/125 µm fiber only) (SC)
**[up to 2 km] Link Budget: 7.0 dB**

**CGFEB1314-150**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-LX 1310nm SM (SC)
**[10 km/6.2 mi.] Link Budget: 7.0 dB**

**CGFEB1315-150**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-LX 1310nm SM (SC)
**[25 km/15.5 mi.] Link Budget: 15.0 dB**

**CGFEB1317-150**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-LX 1550nm SM (SC)
**[65 km/40.4 mi.] Link Budget: 20.0 dB**

**CGFEB1335-150**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-LX 1550nm SM (SC)
**[125 km/77.7 mi.] Link Budget: 27.0 dB**

**CGFEB1340-170**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-X SFP Slot (empty)

**CGFEB1440-170**
100BASE-FX 1310nm SM (SC)
**[20 km/12.4 mi.] Link Budget: 16.0 dB**
to 1000BASE-X SFP Slot (empty)

**Single Fiber Products**
*Recommended use in pairs*

**CGFEB1329-150**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-LX 1310nm TX / 1550nm RX single fiber SM (SC)
**[20 km/12.4 mi.] Link Budget: 13.0 dB**

**CGFEB1329-151**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-LX 1550nm TX / 1310nm RX single fiber SM (SC)
**[20 km/12.4 mi.] Link Budget: 13.0 dB**

**CGFEB1329-152**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-LX 1310nm TX / 1550nm RX single fiber SM (SC)
**[40 km/24.9 mi.] Link Budget: 20.0 dB**

**CGFEB1329-153**
100BASE-FX 1300nm MM (SC)
**[2 km/1.2 mi.] Link Budget: 11.0 dB**
to 1000BASE-LX 1550nm TX / 1310nm RX single fiber SM (SC)
**[40 km/24.9 mi.] Link Budget: 20.0 dB**

**CGFEB1429-150**
100BASE-FX 1310nm SM (SC)
**[20 km/12.4 mi.] Link Budget: 16.0 dB**
to 1000BASE-LX 1310nm TX / 1550nm RX single fiber SM (SC)
**[20 km/12.4 mi.] Link Budget: 13.0 dB**

**CGFEB1429-151**
100BASE-FX 1310nm SM (SC)
**[20 km/12.4 mi.] Link Budget: 16.0 dB**
to 1000BASE-LX 1550nm TX / 1310nm RX single fiber SM (SC)
**[20 km/12.4 mi.] Link Budget: 13.0 dB**

**CGFEB1429-152**
100BASE-FX 1310nm SM (SC)
**[20 km/12.4 mi.] Link Budget: 16.0 dB**
to 1000BASE-LX 1310nm TX / 1550nm RX single fiber SM (SC)
**[40 km/24.9 mi.] Link Budget: 20.0 dB**

**CGFEB1429-153**
100BASE-FX 1310nm SM (SC)
**[20 km/12.4 mi.] Link Budget: 16.0 dB**
to 1000BASE-LX 1550nm TX / 1310nm RX single fiber SM (SC)
**[40 km/24.9 mi.] Link Budget: 20.0 dB**

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